

**WASHINGTON STATE DEPARTMENT OF HEALTH  
OFFICE OF FOOD SAFETY AND SHELLFISH PROGRAMS**

**ANNUAL GROWING AREA REVIEW**

**PREPARED BY:** Donald Melvin, Environmental Specialist

**AREA:** Bay Center

**YEAR ENDING:** December 31, 2005

**CLASSIFICATION:** Approved, Prohibited, Unclassified

**ACTIVITIES IN THE GROWING AREA IN 2005:**

Samples were collected from each station in the growing area 6 times during the year using the systematic random sampling method.

**ANALYTICAL RESULTS OF WATER SAMPLES:**

Table #1 summarizes the results of all samples collected from the area. This summary shows that all stations in the approved portion of the growing area pass the NSSP water quality standard. Sampling station #112 is threatened and stations #113, #124, #125, #137, and #138 are of concern due to elevated bacteria levels. Individual sampling results for station #112 are shown in Table #2.

**CHANGE IN ACTUAL POLLUTION SOURCES THAT IMPACT THE GROWING AREA:**

We currently have no information indicating that the area has new sources of pollution.

**CLASSIFICATION STATUS:**

- ☐ Well within the classification standards
- ☐ Meets standards but some concerns
- ☒ Meets standards but threatened with a downgrade in classification
- ☐ Fails to meet classification standards

**REMARKS AND RECOMMENDATIONS:**

Table #1 shows that all stations meet the NSSP water quality standards for approved and restricted classification and the area is correctly classified.

**TABLE 1****SUMMARY OF MARINE WATER DATA (SRS)**Growing Area: **BAY CENTER**Classification: **Approved, Prohibited, Unclassified**From **08/29/2000** To **12/31/2005****FECAL COLIFORM ORGANISMS/100 ML**

<b>Station Number</b>	<b>Classification</b>	<b>Number of Samples</b>	<b>Range</b>	<b>Geometric Mean</b>	<b>Est. 90th Percentile</b>	<b>Meets Std.</b>
112	Approved	33	1.7 - 170.0	5.8	35.0	Yes
113	Approved	33	1.7 - 170.0	4.8	24.0	Yes
114	Approved	32	1.7 - 17.0	2.5	5.0	Yes
116	Approved	33	1.7 - 23.0	3.2	9.0	Yes
117	Approved	33	1.7 - 49.0	3.1	9.0	Yes
118	Approved	33	1.7 - 33.0	2.5	6.0	Yes
119	Approved	33	1.7 - 23.0	2.5	5.0	Yes
120	Approved	33	1.7 - 26.0	2.3	5.0	Yes
123	Approved	33	1.7 - 49.0	2.7	7.0	Yes
124	Approved	32	1.7 - 49.0	6.4	27.0	Yes
125	Approved	33	1.7 - 130.0	5.3	26.0	Yes
126	Approved	33	1.7 - 23.0	2.6	7.0	Yes
127	Approved	33	1.7 - 140.0	3.7	16.0	Yes
128	Approved	33	1.7 - 23.0	2.4	5.0	Yes
129	Approved	33	1.7 - 7.8	2.1	3.0	Yes
130	Approved	32	1.7 - 35.0	2.7	7.0	Yes
132	Approved	32	1.7 - 31.0	2.7	7.0	Yes
134	Approved	33	1.7 - 46.0	4.0	13.0	Yes
135	Approved	30	1.7 - 33.0	2.8	9.0	Yes
137	Approved	33	1.7 - 79.0	5.8	27.0	Yes
138	Approved	33	1.7 - 33.0	4.8	22.0	Yes
110	Prohibited	33	1.7 - 350.0	10.7	75.0	No
111	Prohibited	32	1.7 - 920.0	12.6	116.0	No
115	Prohibited	33	1.7 - 240.0	11.8	72.0	No
121	Unclassified	13	1.7 - 13.0	2.0	4.0	*N/A
122	Unclassified	13	1.7 - 49.0	2.2	7.0	*N/A
131	Unclassified	13	1.7 - 7.8	2.1	4.0	*N/A
133	Unclassified	13	1.7 - 7.8	2.2	4.0	*N/A
136	Unclassified	10	1.7 - 4.5	1.9	2.0	*N/A
190	Unclassified	19	1.7 - 11.0	2.6	5.0	*N/A

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

\* N/A - SRS criteria require a minimum of 30 samples from each station. \*

**TABLE 2****SUMMARY OF SHELLFISH GROWING AREAS  
WATER QUALITY STUDY RESULTS**Growing Area: **BAY CENTER**Sampling Station Number: **112**Classification: **Approved**

Sample Date	Sample Time	Tide	Fcoli/100ml	Temperature	Salinity
08/29/2000	11:59	Flood	49	17	29
10/10/2000	12:00	Flood	4.5	14	27
12/06/2000	10:38	Ebb	1.7	7	24
02/07/2001	11:07	Flood	2	6	24
03/20/2001	10:36	Ebb	11	10	21
06/19/2001	12:04	Flood	1.7	17	25
07/31/2001	12:20	Flood	1.8	16	30
10/17/2001	12:30	Flood	7.8	13	30
12/04/2001	12:02	Flood	110	6	10
02/26/2002	09:56	Flood	1.7	7	21
04/09/2002	10:45	Flood	1.7	12	22
05/07/2002	09:54	Flood	1.7	11	20
08/20/2002	11:03	Flood	4.5	16	31
10/16/2002	10:42	Flood	2	13	30
12/05/2002	11:54	Flood	2	9	28
04/15/2003	10:34	Flood	7.8	10	18
05/13/2003	10:03	Flood	2	13	22
08/26/2003	11:46	Flood	4.5	18	30
09/22/2003	12:05	Flood	2	16	30
10/07/2003	10:40	Flood	17	14	30
12/04/2003	11:50	Ebb	4	7	18
02/02/2004	11:06	Ebb	70	6	5
03/03/2004	10:08	Flood	2	7	20
05/04/2004	11:29	Flood	17	15	25
07/13/2004	11:12	Flood	1.7	18	30
09/14/2004	11:13	Flood	33	18	28
12/21/2004	10:44	Ebb	2	8	22
04/19/2005	09:55	Flood	17	10	10
06/21/2005	11:17	Flood	170	19	22
08/03/2005	11:50	Flood	4.5	19	30
09/15/2005	10:56	Flood	1.7	15	31
10/17/2005	10:50	Flood	46	13	28
11/29/2005	10:20	Flood	4.5	6	25

Number of Samples: 33

Geometric Mean: 5.8

Range: 1.7 - 170

Estimated 90th Percentile: 35



